

## Summary of selected constituents in the California Aqueduct

(August 2011 to July 2012)

The Department of Water Resources (DWR) routinely collects surface water samples at locations above and below groundwater pump-in points along the California Aqueduct. When non-project water is pumped into the California Aqueduct, samples are also collected at or near these pump-in locations. The samples are analyzed for a number of contaminants by DWR's Bryte Laboratory and the data are available at: <http://www.water.ca.gov/waterdatalibrary/>.

Table 1 summarizes the total acre-feet (AF) of groundwater pump-in volumes from August 1, 2011 to July 31, 2012. Table 2 summarizes the selected constituent concentrations in the California Aqueduct above and below the pump-in locations average over the same time period. There were no differences in dissolved arsenic concentrations in the California Aqueduct below the pump-in locations.

**Table 1: Total Groundwater Pump-in Volume in acre-feet**

Year	Month	WRMWSD	CVC	KWB Canal	AEWSD	Monthly Total	Chrisman Pumping
2011	August	0	0	0	0	0	180,214
2011	September	0	0	0	0	0	180,037
2011	October	0	0	0	0	0	132,566
2011	November	0	0	0	0	0	136,016
2011	December	0	0	0	0	0	127,279
2012	January	0	0	0	0	0	119,962
2012	February	0	0	0	0	0	71,892
2012	March	0	7,085	25,130	6,495	38,710	80,165
2012	April	481	5,783	29,609	3,425	39,298	131,472
2012	May	373	103	21,909	90	22,475	192,484
2012	June	458	0	18,396	0	18,854	144,409
2012	July	0	0	0	0	0	144,019
Total (AF)		1,312	12,971	95,044	10,010	119,337	1,640,515

WRMWSD=Wheeler Ridge Maricopa Water Storage District, CVC= Cross Valley Canal (operated by Kern County Water Agency), KWB=Kern Water Bank (operated by the Kern Water Bank Authority), and AEWSD= Arvin-Edison Water Storage District.

**Table 2: Water Quality data in the California Aqueduct Above and Below Groundwater Pump-in Locations**

		Arsenic (mg/L)	Bromide (mg/L)	Nitrate (mg/L)	Sulfate (mg/L)	TDS (mg/L)	TOC (mg/L)
Above Pump-in location	Check 21	0.002	0.19	2.4	32	379	3.0
	(number of samples)	12	12	12	12	12	12
Below Pump-in location	Checks 39 and 41	0.002	0.17	2.7	32	221	2.9
	(number of samples)	12	12	12	12	12	12
Average Increase/Decrease		-	0.02	-0.3	-	176	0.1

All values in mg/L (ppm), DWR data only.